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1. OSD13-EP5: Precision In-Cylinder Pressure Sensor System for Heavy Duty Diesel Engines

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: Develop a high data-rate real-time pressure measurement system to continuously measure combustion pressure in diesel engine cylinders, which is affordable, durable, and accurate, for future use in real-time adaptive engine controls of fuel injection. BACKGROUND/DESCRIPTION: Unlike commercial diesel engines which are typically designed to operate on a single fuel such as U.S. ultra-l ...

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2. OSD13-HS1: Advanced Programming and Teaching Interfaces for Autonomous System Control

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: Develop interface(s) to allow users to"teach"or program robotic manipulation and mobility through virtual simulation and through real-world demonstration which the robot can apply autonomously in various situations. DESCRIPTION: It is not likely that an autonomous system can be programmed with all the information it requires to perform every mission or every variation of every cont ...

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3. OSD13-HS2: Virtual Verification Test Bed for Robust Autonomous Software Operation in Complex, Unknown Environments

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: Develop an innovative verification tool to assess the robustness of run time safety systems bounding autonomous and learning algorithms for operation in untrained/unknown environments. DESCRIPTION: It is understood that an autonomous unmanned air, ground, or sea vehicles can incur a near infinite decision space that is difficult to capture completely in extensive simulation. The re ...

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4. OSD13-HS3: Technologies for Low-Bandwidth, High-Latency Unmanned Ground Vehicle Control

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: Develop algorithmic approaches to enabling robust control of autonomous unmanned ground vehicles operating in complex, unstructured environments, over low-bandwidth, high latency communication links. DESCRIPTION: This topic addresses the problem of robustly commanding and controlling unmanned ground vehicles operating in complex, unstructured environments. Current approaches to this ...

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5. OSD13-HS4: Unmanned Systems Perception Workbench for Test and Evaluation

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: Develop an API and User Interface for testing and evaluating the performance of perception systems for autonomous vehicles. DESCRIPTION: Perception systems for autonomous vehicles are often tuned to a specific platform and thus will degrade in performance if transferred to a different platform. For example, terrain costs are computed according to a fixed mapping from perceived te ...

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6. OSD13-HS5: Human/Autonomous-System Interaction and Collaboration

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: Develop innovative frameworks, tools, and human-machine interfaces that provide improved trust, transparency in the autonomous system or provide more flexible, cognitively matched human-machine interaction and cooperation. DESCRIPTION: Human-autonomous system interaction is frequently limited by lack of confidence and trust among the (combined) team. In order to have humans colla ...

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7. OSD13-LD1: Deep Analytics for Data in Cyber-Physical Systems

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

Objective: To develop and integrate automated algorithms with visual analytic tool for processing information in cyber-physical systems. Description: As the Department of Defense increasingly emphasizes autonomous implementation of many tasks that are traditionally done by humans, it is imperative that the Tri-Services support scientific research and technology development in the domain of hu ...

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8. OSD13-LD2: Knowledge-aided Interface for Big Data Streams

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: Develop an innovative cognitive knowledge-aided interface and supporting information processing techniques to exploit very large data streams over wide areas and autonomously highlight areas of interest for tactical decisions without a priori knowledge of the area and/or location of high value. DESCRIPTION: Big data challenges across Department of Defense (DOD) domains are increasi ...

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9. OSD13-LD3: Layered Data to Areas of Interest

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: The objective of this research is to use spatial, temporal and graph analysis techniques to take very large data streams over wide areas and autonomously highlight areas of interest for a decision maker without a priori knowledge of the area and/or location of high value. DESCRIPTION: To protect U.S. national interests and achieve the objectives of the 2010 National Security Strategy ...

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10. OSD13-PR1: Direct Injection Systems for Improved Performance, Durability, and Economy

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: Develop and demonstrate an advanced high pressure, heavy fuel (JP-8) injection system for UAS/UGS applications, capable of performing multiple injections per cycle. DESCRIPTION: This effort is to develop a fast responding, light weight, direct injection system to operate within the fuel"s ignition delay time for UAS/UGS application. These systems must

be applicable to engines that ...

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